





PAGER Version 6

10,000

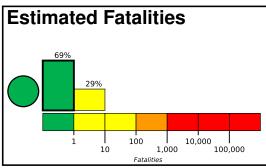
100,000

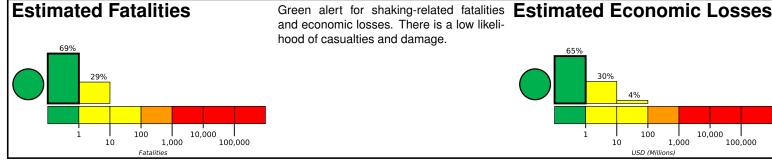
1,000

Created: 1 week, 1 day after earthquake

M 4.2, 11 km NNE of Guide Rock, Nebraska

Origin Time: 2023-12-10 19:31:19 UTC (Sun 13:31:19 local) Location: 40.1717° N 98.2849° W Depth: 13.1 km





Estimated Population Exposed to Earthquake Shaking

		•			<u> </u>					
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	2,212k	20k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

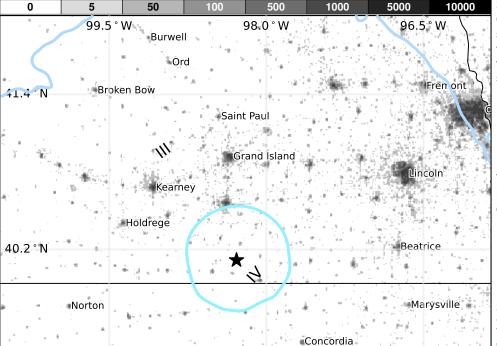
Population Exposure



Clay Center

Lindsbo

Junction City



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

There were no earthquakes with significant population exposure to shaking within a 400 km radius of this event.

Selected City Exposure

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from Ge	eoNames.org	
MMI	City	Population
IV	Nelson	(
IV	Red Cloud	11
IV	Superior	21
IV	Clay Center	1k
Ш	Hastings	25k
Ш	Mankato	11
Ш	Lincoln	258
Ш	Manhattan	521
II	Council Bluffs	621
II	Bellevue	50k
П	Omaha	4091

bold cities appear on map.

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Heisington

Plainville

39.1 ° N